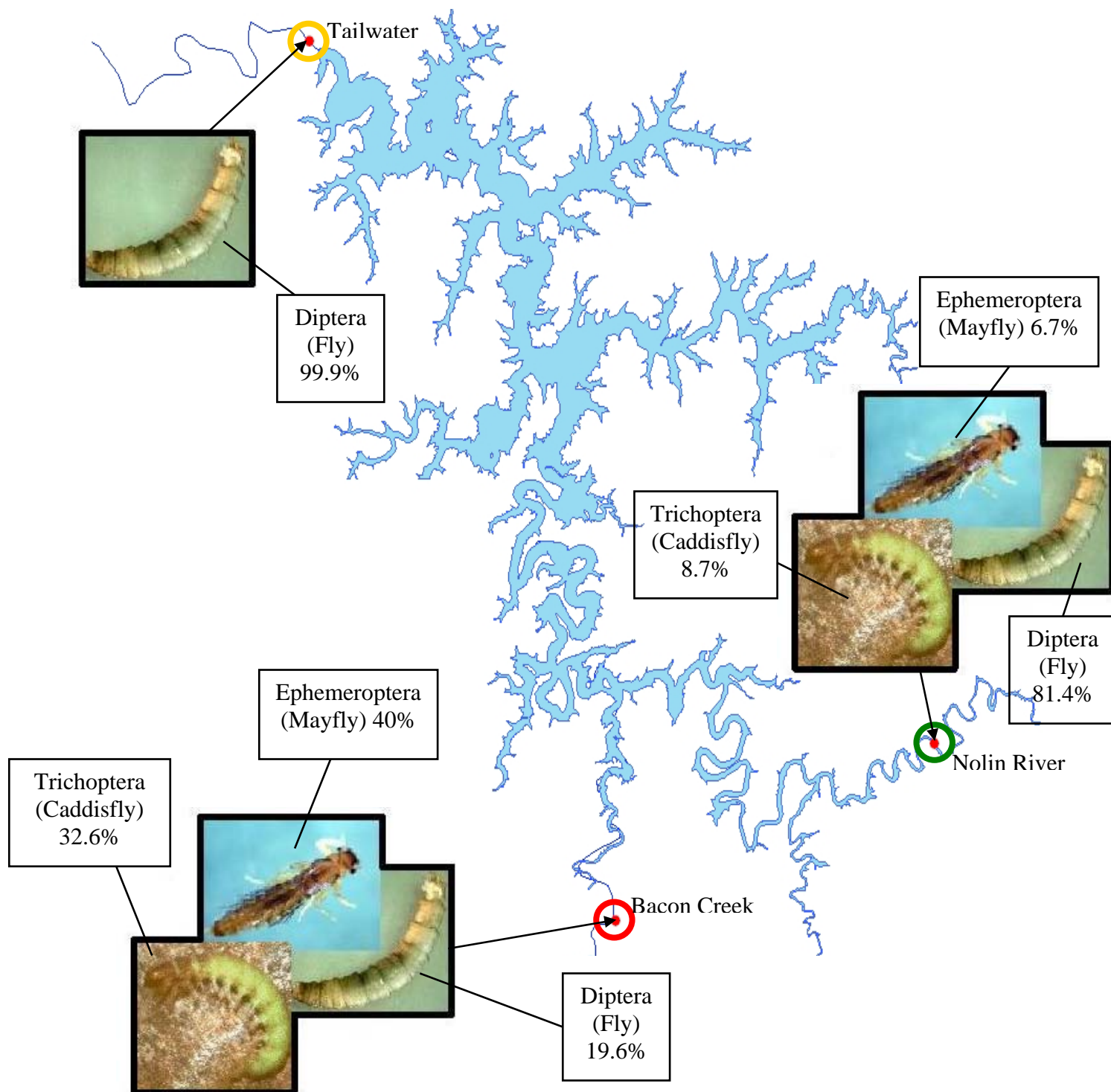


Aquatic Insects' Community Structure
Nolin Lake Analysis
September 14 and 15, 2004

Relative abundance of dominant taxa found at the sites shown below.



COMMUNITY METRICS *	Nolin Lake		
	Tailwater	Nolin River	Bacon Creek
Collection Date	9/15/04	9/15/04	9/14/04
Total Number of Taxa	18	27	27
% Contribution of Dominant Taxa	99	86	0
Modified Hilsenhoff Biotic Index (0, good – 10, bad)	6.46	4.72	4.87
Shannon-Wiener Index	0.56	1.72	3.00
Number of Ephemeroptera Taxa	2	3	5
% Ephemeroptera Taxa (Abundance)	0	7	40
Number of Plecoptera Taxa	0	0	0
% Plecoptera Taxa (Abundance)	0	0	0
Number of Trichoptera Taxa	4	5	7
% Trichoptera Taxa (Abundance)	0	9	32
Number of EPT Taxa	6	8	12
% EPT Taxa	0	15	72
Number of Dipteran Taxa	7	13	10
% Dipteran Taxa	94	80	20
Number of Chironomid Taxa	4	10	10
% Chironomid Taxa	94	22	7
Number of Tanytarsini Taxa	1	1	0
% Tanytarsini Taxa	87	13	0
Number of Orthocladiinae Taxa	3	6	4
% Orthocladiinae Taxa	3	8	2
% Cricotopus + Chironomus/Total Chiron.	1	10	6
Number of Dipteran Taxa – Tanytarsini and other Non-Insect Taxa	12	15	12
% Dipteran Taxa - Tanytarsini and other Non-Insect Taxa	13	69	20
Ratio of EPT to Chiron. Abundance	0.001	0.69	11.68
Percent Tolerant Organisms	0	1	0
Numbers of Individuals / m ²	67,968	1,900	2,841
* Based on 4 replicate surber samples Substrate sampled – small stones			

5 Most Abundant Taxa on Tailwater

1. Rheotanytarsus exiguus group sp. (Diptera) 92.3%
2. Polypedilum flavum (Diptera) 4.2%
3. Nanocladius (Nanocladius) sp. (Diptera) 2.5%
4. Cricotopus (Cricotopus) bicinctus (Diptera) 0.4%
5. Cricotopus/Orthocladius sp. (Diptera) 0.4%

5 Most Abundant Taxa on Nolin River

1. Simulium sp. (Diptera) 58.4%
2. Rheotanytarsus exiguus group sp. (Diptera) 13.1%
3. Cheumatopsyche sp. (Trichoptera) 6.6%
4. Rheocricotopus robacki (Diptera) 6%
5. Baetis intercalaris (Ephemeroptera) 4.1%

5 Most Abundant Taxa on Bacon Creek

1. Cheumatopsyche sp. (Trichoptera) 25.4%
2. Stenonema sp. (Ephemeroptera) 13.8%
3. Simulium sp. (Diptera) 12.5%
4. Isonychia sp. (Ephemeroptera) 12%
5. Baetis intercalaris (Ephemeroptera) 11.6%